FIG. 1

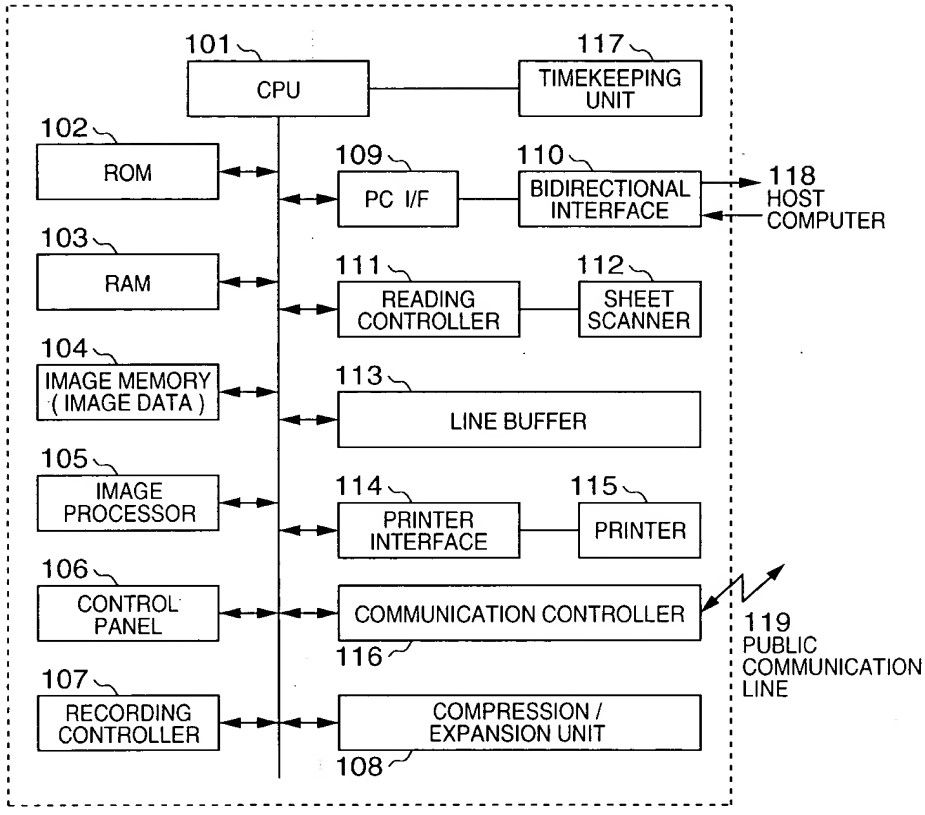

101
CPU
117
TIMEKEEPING UNIT
102
ROM
109
PC I/F
110
BIDIRECTIONAL INTERFACE
118
HOST COMPUTER
103
RAM
111
READING CONTROLLER
112
SHEET SCANNER
104
IMAGE MEMORY (IMAGE DATA)
113
LINE BUFFER
105
IMAGE PROCESSOR
114
PRINTER INTERFACE
115
PRINTER
106
CONTROL PANEL
COMMUNICATION CONTROLLER
119
PUBLIC COMMUNICATION LINE
116
107
RECORDING CONTROLLER
COMPRESSION / EXPANSION UNIT
108

FIG. 2

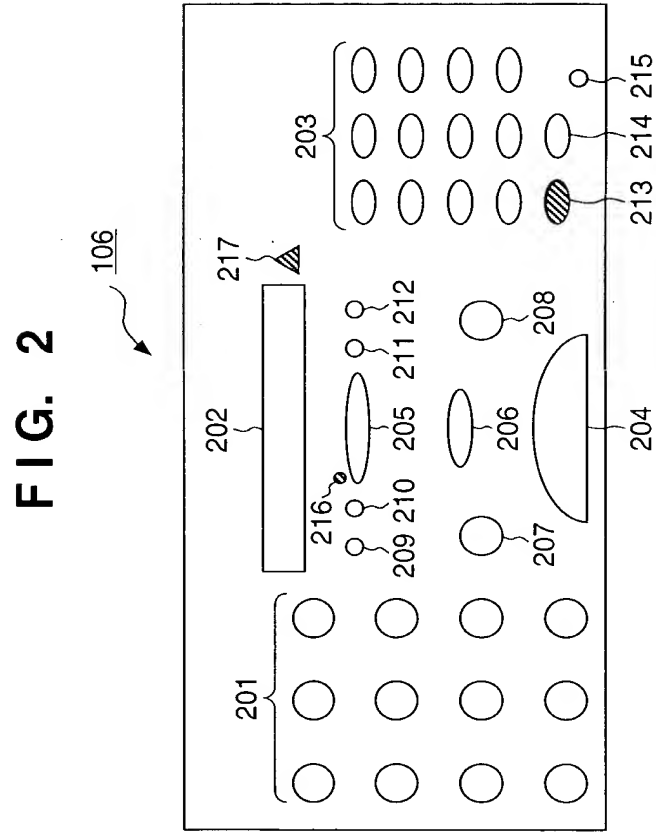

106
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217

FIG. 3
(PRIOR ART)

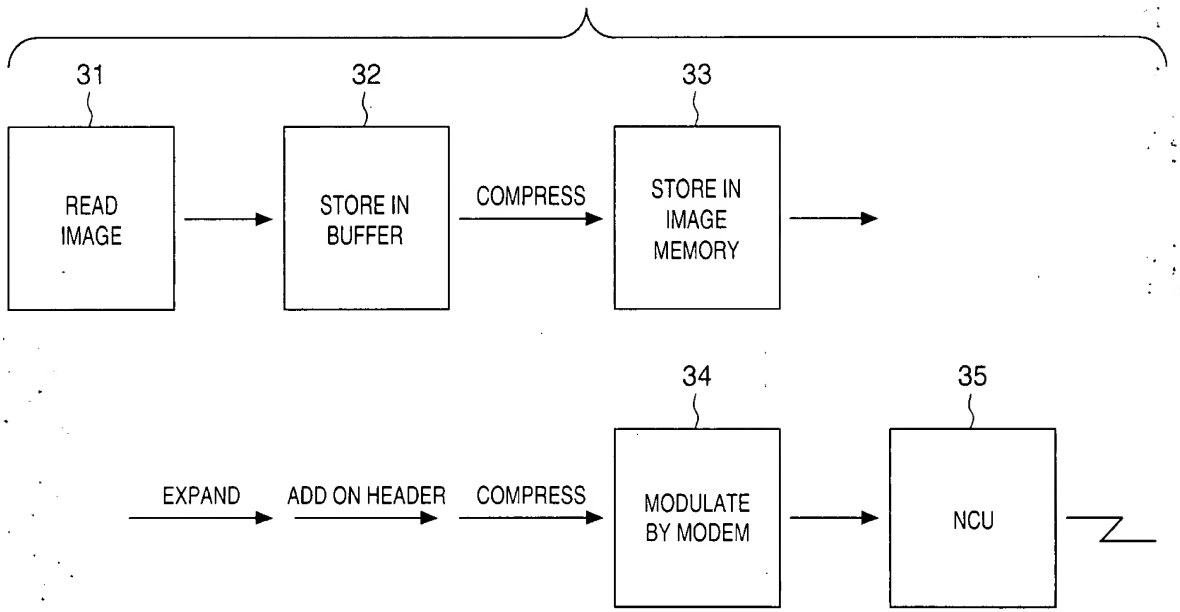


FIG. 4

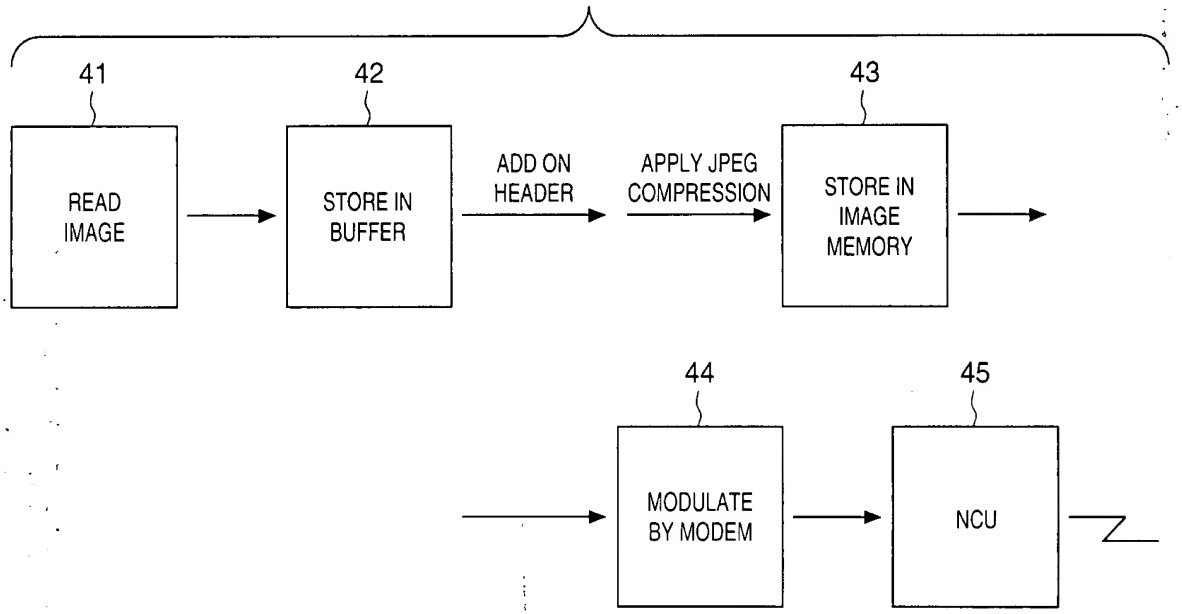

41
READ IMAGE
42
STORE IN BUFFER
ADD ON HEADER
APPLY JPEG COMPRESSION
43
STORE IN IMAGE MEMORY
44
MODULATE BY MODEM
45
NCU

FIG. 5

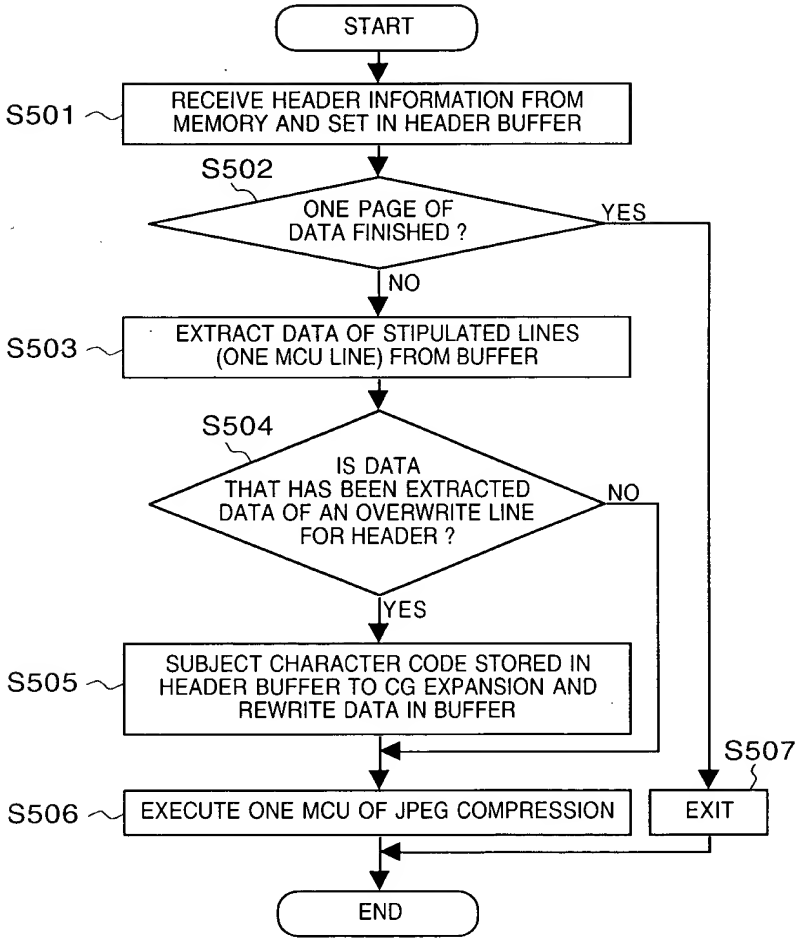

START
S501
RECEIVE HEADER INFORMATION FROM MEMORY AND SET IN HEADER BUFFER
S502
ONE PAGE OF DATA FINISHED ?
YES
NO
S503
EXTRACT DATA OF STIPULATED LINES (ONE MCU LINE) FROM BUFFER
S504
IS DATA THAT HAS BEEN EXTRACTED DATA OF AN OVERWRITE LINE FOR HEADER ?
NO
YES
S505
SUBJECT CHARACTER CODE STORED IN HEADER BUFFER TO CG EXPANSION AND REWRITE DATA IN BUFFER
S507
S506
EXECUTE ONE MCU OF JPEG COMPRESSION
EXIT
END

FIG. 6

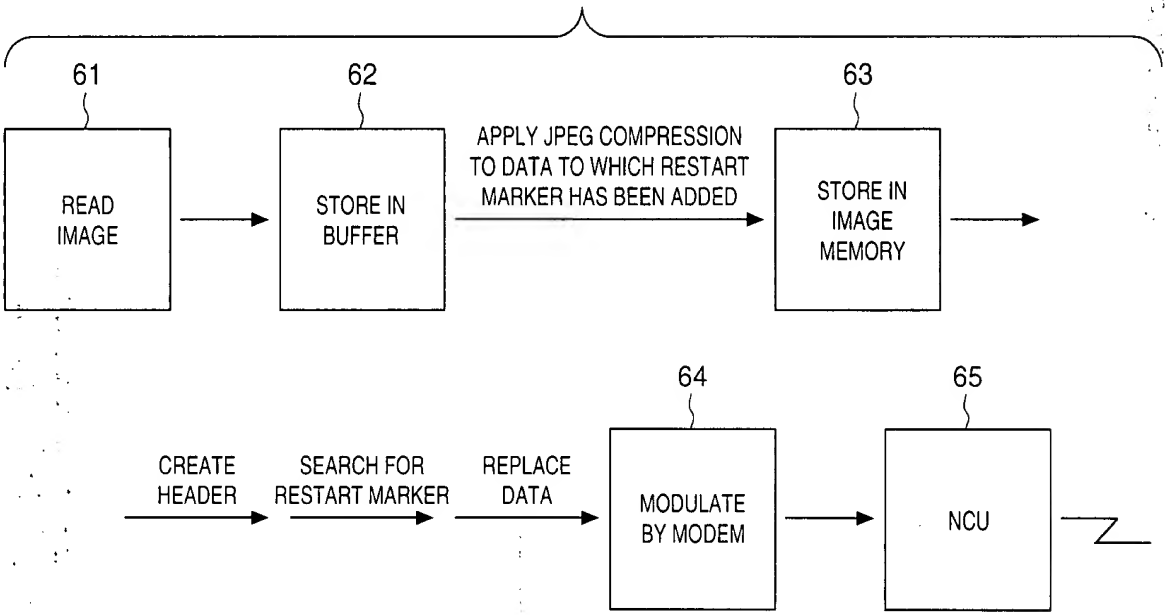

61
READ IMAGE
62
STORE IN BUFFER
APPLY JPEG COMPRESSION TO DATA TO WHICH RESTART MARKER HAS BEEN ADDED
63
STORE IN IMAGE MEMORY
CREATE HEADER
SEARCH FOR RESTART MARKER
REPLACE DATA
64
MODULATE BY MODEM
65
NCU

FIG. 7

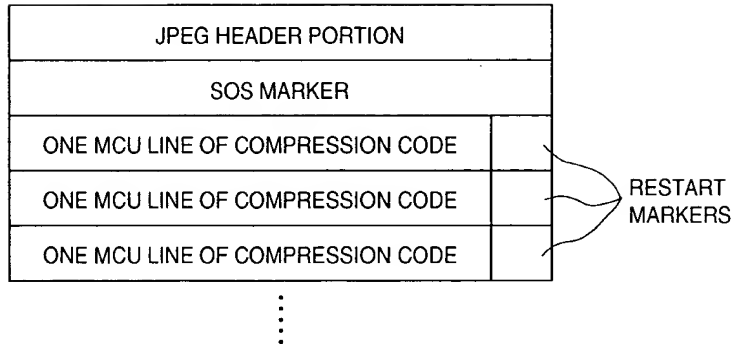
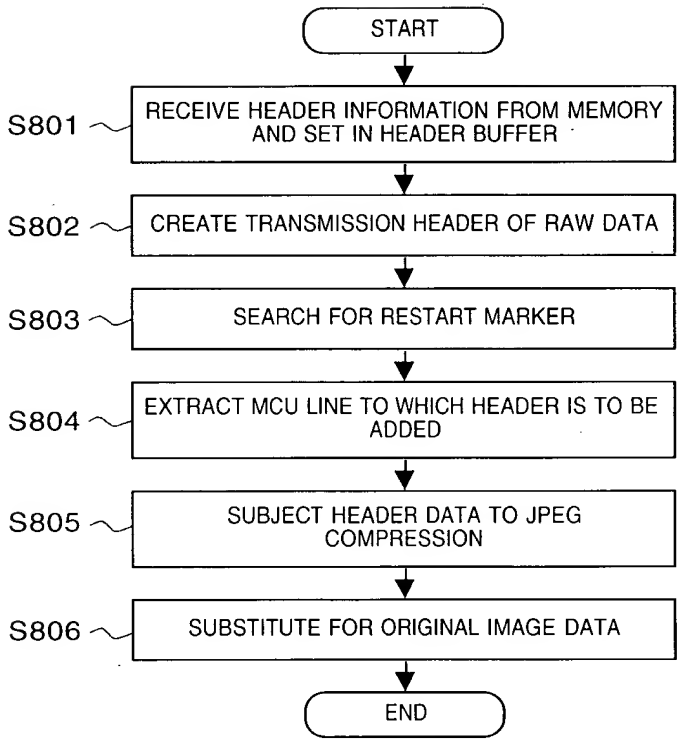

JPEG HEADER PORTION
SOS MARKER
ONE MCU LINE OF COMPRESSION CODE
ONE MCU LINE OF COMPRESSION CODE
ONE MCU LINE OF COMPRESSION CODE
RESTART MARKERS

FIG. 8


START
S801
RECEIVE HEADER INFORMATION FROM MEMORY AND SET IN HEADER BUFFER
S802
CREATE TRANSMISSION HEADER OF RAW DATA
S803
SEARCH FOR RESTART MARKER
S804
EXTRACT MCU LINE TO WHICH HEADER IS TO BE ADDED
S805
SUBJECT HEADER DATA TO JPEG COMPRESSION
S806
SUBSTITUTE FOR ORIGINAL IMAGE DATA
END